# Virtual NOC - Components

## Shell Scripts

### Listener.sh

1. Check for incoming mails
2. Store it to DB
3. Move the mail to archive

### JobsValidator.sh

1. Check for new jobs
2. Validate the jobs
3. Assign job id
4. If it is a ticket mail store the ticket to respective job id
5. Store into DB

### AssignAnalyst.sh

1. Check for New jobs or initiate when triggers manual
2. Collect necessary info from DB for the job
3. Triger an analyst and pass the required info to him

### Analyst.sh – [Finished first level of coding]

1. Check all the inputs when triggers
2. Login to the target and execute the script
3. Validating the result
4. **Store the same on DB -> pending**

### TraceJobs.sh

#### TimoutTracer.sh

1. Fetch the duration of all processing jobs
2. Compare it to its maximum limit
3. If the duration exceed the maximum limit, Kill the job and store error code on DB

#### TraceCompleted.sh

1. Check for completed jobs
2. Gather the result code and result summery
3. Store the same on DB
4. Triger a reporter and pass the job ID to him

### Reporter.sh

1. Check Job ID reliability when it triggers
2. Get escalation details and ticket based on error code
3. Construct reply mail
4. Send mail and update DB

## SQL DBs

### VNOCConfig

#### Analyst.VNOCConfig

1. Analyst name(alert ID, Report ID or Command ID)
2. Script to Run
3. Arguments to pass if any
4. Maximum process time

#### Contacts.VNOCConfig

1. Group/Individual Email IDs of each division with division reference number

#### ReturnCodes.VNOCConfig

1. Result status with division reference number for return code number
2. Detailed escalation content (Reply Mail content) with return code number

### Jobs

#### History.Jobs

1. All details about all recorded jobs (Huge DB)

### CurrentJobs

#### ProcessingJobs.Jobs

1. Currently processing jobs and its current status with duration

## VNOC Manager Console (web UI)

### JobsMonitor

This console provide you the real time status of all processing jobs and gives you the controls to handle them (Abort, cancel, stop, start, restart and suspend)

### Configuration

This console provide you the controls to create and update all the configurations (analyst conf, escalation conf, return code conf, schedules …..)

### Jobs

Here you can see the history of all the jobs and controls to search and generate reports with multiple conditions.

### Analysts

This console will list all the configured analyst sorted with division, you can disable, suspend, unsuspend and manually trigger the analyst